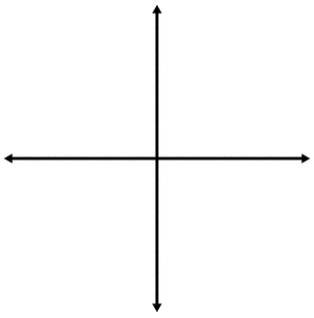
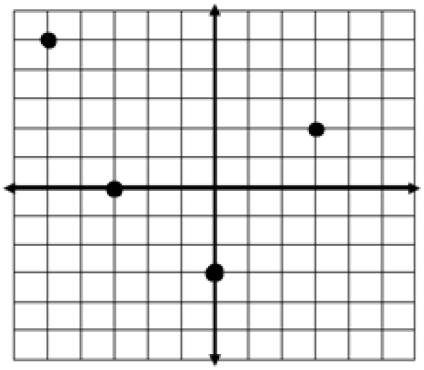
Algebra 1 H Chapter 4 test review 2018 Name:_____

YOUR TEST WILL HAVE MUCH MORE SPACE TO ALLOW YOU TO COMPLETE PROBLEMS AND SHOW WORK. Please show all work on looseleaf for the review. (I am trying to use less paper ☺)

Label the following on the graph provided:



1. Origin
2. X-axis
3. Y-axis
4. Quadrants I, II, III and IV



5. Give the coordinates of each point.

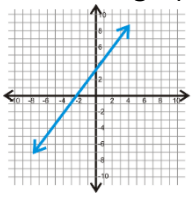
   A _____ B_____

   C_____ D_____

6. Write the slope-intercept notation of a line in it's general form. Then, label the slope and the y-intercept.

Circle true if the statement is true, and false if the statement is false.

7. TRUE / FALSE The line $y = 3$ has an undefined slope, and no y-intercept.
8. TRUE / FALSE The line $x = -2$ has a slope of 0.
9. TRUE / FALSE The line $x = 4$ is a vertical line.
10. TRUE / FALSE The slope of the line on the graph below is positive.



11. Given $f(x) = -2x + 7$ and $g(x) = \frac{1}{2}(4x - 5)$ find the following. Please change improper fractions to mixed numbers.
    a.) $f(-3)$
    b.) $f\left(\frac{1}{6}\right)$
    c.) $g(9)$
    d.) $g(0)$
    e.) $f(x) = 19$

Find the x and y intercept of each line. Then, graph the line using these intercepts. Show you work in the space provided. Use a ruler to create the line.

12. $4x - y = 8$

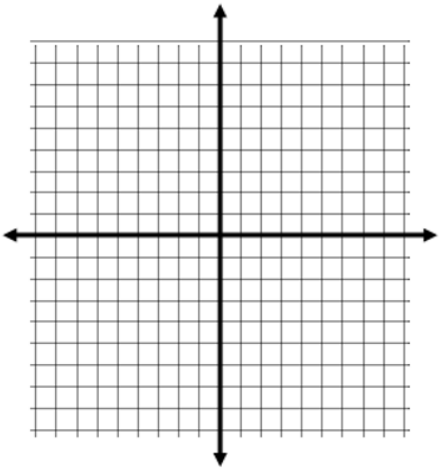
    $x - intercept$ (,)

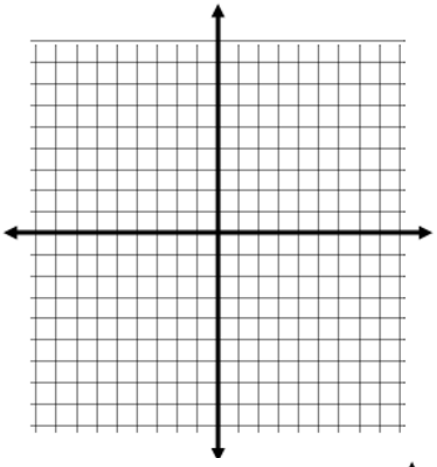
    $y - intercept$ (,)

12. $3x - 3y = -9$

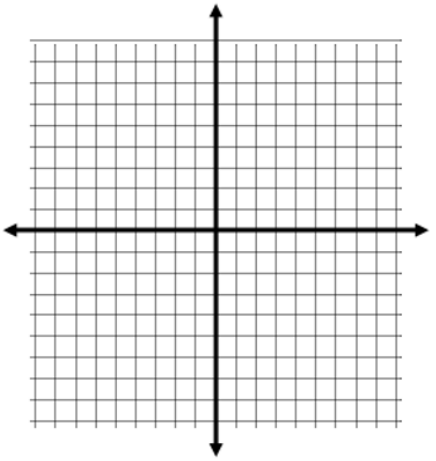
    $x - intercept$ (,)

    $y - intercept$ (,)





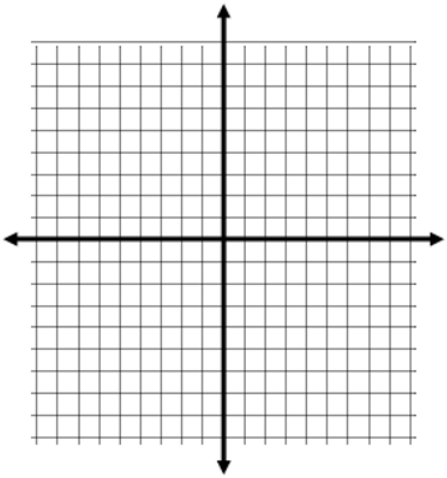
14. Graph the line $6x + 2y = 14$ by creating a chart of x and y values. Find and plot at least 4 points. Use a ruler to create the line.



15 – 16 Identify the slope (m) and the y-intercept (b) of each line. Then, use these to graph each line. If there is a slope and y-intercept, graph at least 3 points per line. Label each line. Use a ruler to create each line.

15.) l_1: $y = 4x - 5$

l_2: $x + 3y = 9$



16.) l_3: $3x - 10 = 2y$

l_4: $5x - 2y = 8$